

**IN THE SPECIFICATION:**

Kindly replace the paragraph beginning on page 6, line 1, with the following:

According to a fifth aspect of the present invention step (d) comprises the step of (g) reducing a row weight of  $[[H_u^{-1}]] \underline{H_p^{-1}}$  by representing  $[[H_u^{-1}]] \underline{H_p^{-1}}$  as  $M1 * M2$ .

Kindly replace the paragraph beginning on page 6, line 3, with the following:

According to a sixth aspect of the present invention step (d) comprises the step of (g) reducing a row weight of  $[[H_u^{-1}]] \underline{H_p^{-1}}$  by representing  $[[H_u^{-1}]] \underline{H_p^{-1}}$  as  $\prod_{i=1}^s M_i$ .

Kindly replace the paragraph beginning on page 6, line 20, with the following:

According to an eleventh aspect of the present invention, the  $p = \underline{P} \underline{u}$  calculator reduces a row weight of  $[[H_u^{-1}]] \underline{H_p^{-1}}$  by representing  $[[H_u^{-1}]] \underline{H_p^{-1}}$  as  $M1 * M2$ .

Kindly replace the paragraph beginning on page 6, line 22, with the following:

According to a twelfth aspect of the present invention, the  $p = \underline{P} \underline{u}$  calculator reduces a row weight to  $[[H_u^{-1}]] \underline{H_p^{-1}}$  representing  $[[H_u^{-1}]] \underline{H_p^{-1}}$  as  $\prod_{i=1}^s M_i$ .

Kindly replace the paragraph beginning on page 7, line 29, with the following:

According to a nineteenth aspect of the present invention, the  $p = \underline{P} \underline{u}$  calculating means reduces a row weight of  $[[H_u^{-1}]] \underline{H_p^{-1}}$  by representing  $[[H_u^{-1}]] \underline{H_p^{-1}}$  as  $M1 * M2$ .

Kindly replace the paragraph beginning on page 7, line 31, with the following:

According to a twentieth aspect of the present invention, the  $p = \underline{P} \underline{u}$  calculating means reduces a row weight of  $[[H_u^{-1}]] \underline{H_p^{-1}}$  representing  $[[H_u^{-1}]] \underline{H_p^{-1}}$  as  $\prod_{i=1}^s M_i$ .